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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/710,487	11/10/2000	John Josef Hench	1340P082	5334	
8791	7590 11/30/2004		EXAM	INER	
BLAKELY SOKOLOFF TAYLOR & ZAFMAN 12400 WILSHIRE BOULEVARD SEVENTH FLOOR			TRAN, T	TRAN, THIEN D	
			ART UNIT	PAPER NUMBER	
LOS ANGELI	ES, CA 90025-1030		2665		

DATE MAILED: 11/30/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
		09/710,487	HENCH ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Thien D Tran	2665			
Period f	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
THE - Ext afte - If th - If N - Fail	HORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. ensions of time may be available under the provisions of 37 CFR 1.13 or SIX (6) MONTHS from the mailing date of this communication. he period for reply specified above is less than thirty (30) days, a reply openiod for reply is specified above, the maximum statutory period where to reply within the set or extended period for reply will, by statute or reply received by the Office later than three months after the mailing ned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1)[🗆	Responsive to communication(s) filed on 13 A	ugust 2004.	•			
·	•	action is non-final.				
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposi	tion of Claims					
 4) Claim(s) 1,2,4,6-20,22,24-31,33 and 35-41 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1, 2, 4, 6-20, 22, 24-31, 33, 35-41 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 						
Applicat	tion Papers					
10)	The specification is objected to by the Examine The drawing(s) filed on is/are: a) acce Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	epted or b) objected to by the Edrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority	under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
	ce of References Cited (PTO-892)	4) Interview Summary				
3) 🔲 Info	ce of Draftsperson's Patent Drawing Review (PTO-948) rmation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) er No(s)/Mail Date	Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	te atent Application (PTO-152)			

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) do not apply to the examination of this application as the application being examined was not (1) filed on or after November 29, 2000, or (2) voluntarily published under 35 U.S.C. 122(b). Therefore, this application is examined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

2. Claims 1, 2, 4, 6-20, 22, 24-31, 33, 35-41 are rejected under 35 U.S.C. 102(e) as being participated by Gaikwad et al (U.S Patent No 6,317,495 B1).

Regarding claim 1, Gaikwad discloses a method for the determination (prediction) and optimization of a communications system comprising:

inputting data from a plurality of channels of the communications system, figures 2 and 4:

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determining (predicting) a performance of at least one of the plurality of channels using a plurality of parameters to characterize the performance of the channel, col.59 lines 15-25;

creating at least one transfer function model of the at least one of the plurality of channels, wherein the transfer function model is simulated using physical configuration information of the communication system, figure 15; and

optimizing the channel transfer function such as function of frequency, signal strength, phase shift, function of transmit spectrum...etc (parameters) of at least one of the plurality of channels in order to improve a capacity in bit rate of the at least one of the plurality of channels in the communications system. See col.16 lines 50-65, col.17 line 45, figures 9-14.

Regarding claims 13, Gaikwad discloses asystem for the prediction and optimization of a communications system comprising:

a determination module (prediction module), wherein the determination module determines (predicts) the performance of at least one channel in the communications system by providing a characterization of at least one parameter that describes the channel, col.16 lines 45-61;

and an optimization module, wherein the optimization module finds the optimum characterization for the channel based on at least one design criteria. See figures 14, 15, 27, col.21 and 22.

Regarding claim 20, Gaikwad discloses a method for the prediction of the performance of a communications system comprising:

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inputting data from at least one channel of the communication system into a prediction module (col.15 lines 10-15);

creating at least one transfer function model of the at least one channel; determining an impairment on the at least one channel (col.16 lines 40-60, figure 9); characterizing the at least one channel using the at least one transfer function model and the impairment. See col.16 and 17.

Regarding claim 30, Gaikwad discloses a method for the prediction and optimization of a communications system comprising:

inputting data from at least one channel of the communications system col.18 lines 60-67;

predicting a performance of at least one of the channels using at least one parameter to characterize the performance of the channel, col.28 lines 35-55; and optimizing at least one parameter of at least one of the channels in order to improve a bit rate of the at least one of the channels in the communications system. See col.17 lines 40-55.

Regarding claims 2, 31, Gaikwad discloses the determining the performance of the at least one of the plurality of channels comprises:

inputting data from at least one channel of the communications system into a prediction module;

creating at least one transfer function model of the at least one channel, col.18 lines 60-67:

determining an impairment on the at least one channel, col.28 lines 25-35;

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characterizing at least one channel using the at least one transfer function model and the impairment. See figure.9

Regarding claims 4, 22, 33, Gaikwad discloses that at least one transfer function model is created using a spectrum management system. See col.19 lines 10-25.

Regarding claims 6, 14, 24, 35, Gaikwad discloses that the impairment is selected from the group consisting of: a cross-talk impairment, an AM radio interference, a temperature impairment, and any combination thereof. See col.9 lines 5-35.

Regarding claims 7, 36, Gaikwad discloses the optimizing the parameters comprises: a) choosing a first parameter for the channel;

- b) choosing a second parameter for the channel;
- c) determining an optimization criteria for the channel based upon the first parameter and the second parameter;
- d) repeating a) c) until the optimization criteria is optimized for the communications system. See figures 27 and 40.

Regarding claims 8, 15, 25, 37, Gaikwad discloses that the communications system is a wireline communications system. See col.14 lines 50-60.

Regarding claims 9, 16, 26, 38, Gaikwad discloses that the communications system is a wireless communications system. See col.14 lines 50-60.

Regarding claims 10, 17, 27, 39, Gaikwad discloses that the communications system is an optical communications system. See col.14 lines 50-60.

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Regarding claims 11, 18, 28, 40, Gaikwad discloses that the communications system is a cable communications system. See col.14 lines 50-60.

Regarding claims 12, 19, 29, 41, Gaikwad discloses that the communications system is a DSL communications system. See col.14 lines 45-60.

Conclusion

3. Any inquiry concerning this communication or earlier communication from the examiner should be directed to Thien Tran whose telephone number is (571) 272-3156. The examiner can normally be reached on Monday-Friday from 8:30AM to 5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Huy Vu, can be reached on (571) 272-3155. Any inquiry of a general nature of relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (571) 272-2600.

Thien Tran

STEVEN NGUY